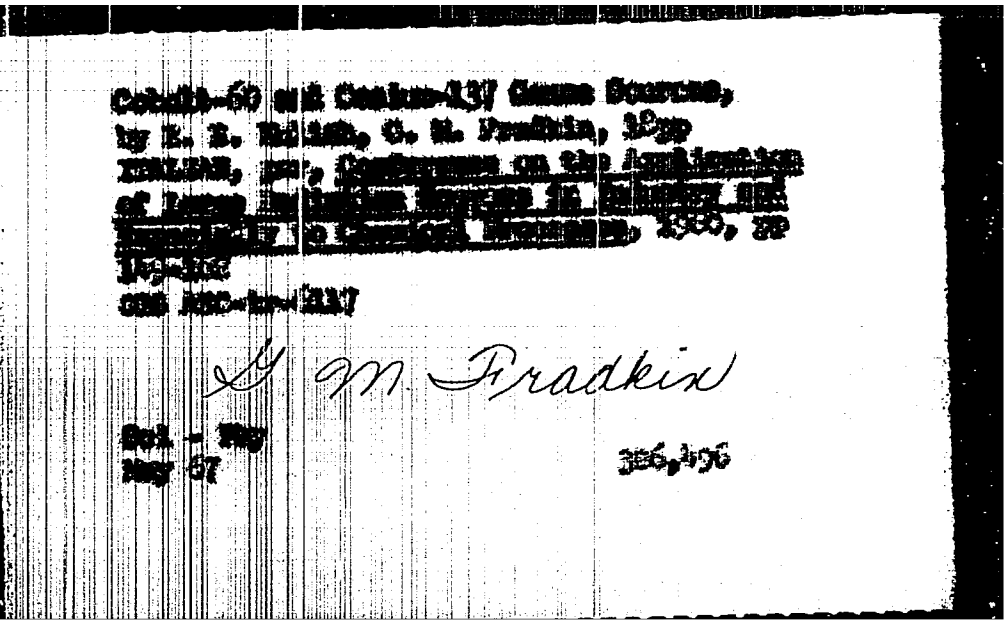
APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390004-1



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ON RENORMALIZATION IN QUANTUM ELECTRODYNAMICS. [1962] [5]p. 3 refs.
Order from OTS or SLA $1.10 62-10647

Trans. of Z[hurnal] E[ksperimental'noi i] T[eoreticheskoi] F[iziki] (USSR) 1954, v. 26, no. 6, p. 751-754.

DESCRIPTORS: *Electrons, *Photons, *Perturbation theory, *Green's function, Integrals, Operators (Mathematics), Differential equations.

The equations for the Green's function are formulated so that they contain only renormalized quantities expressed in terms of experimental values of the charge and mass of the electron. The renormalization is carried out in very general form in order that the results may be carried over to mesodynamics without difficulty.

(Physics--Theoretical, TT, v. 8, no. 5)

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1. Title: Quantum electrodynamics
2. Title: Renormalization
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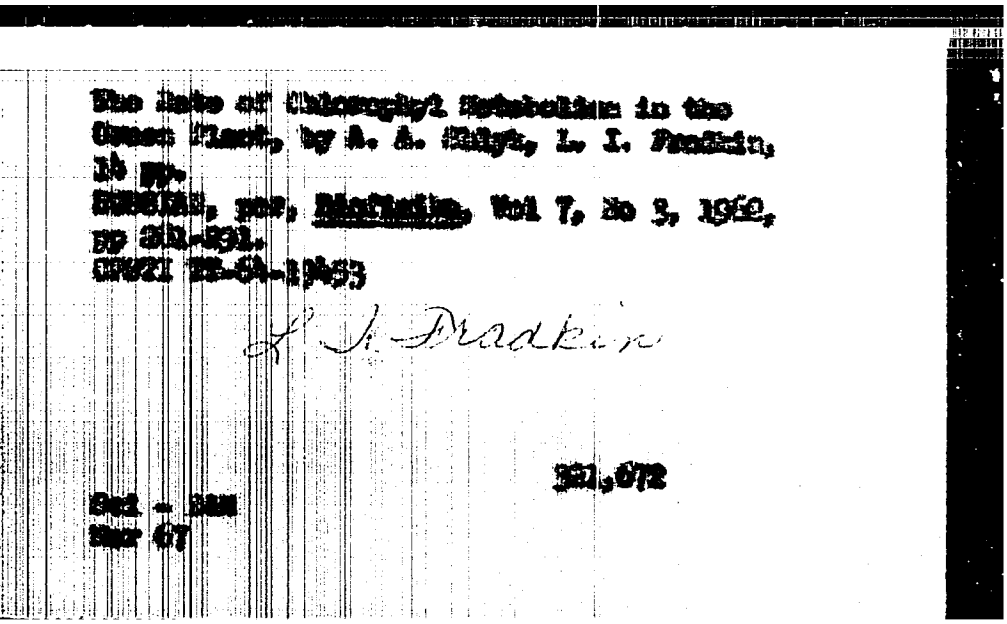

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On Allowed Transformations of the Equations for Particles with Higher Spins, by E. E. Fradkin, S. V. Izmaylov, 5 pp.

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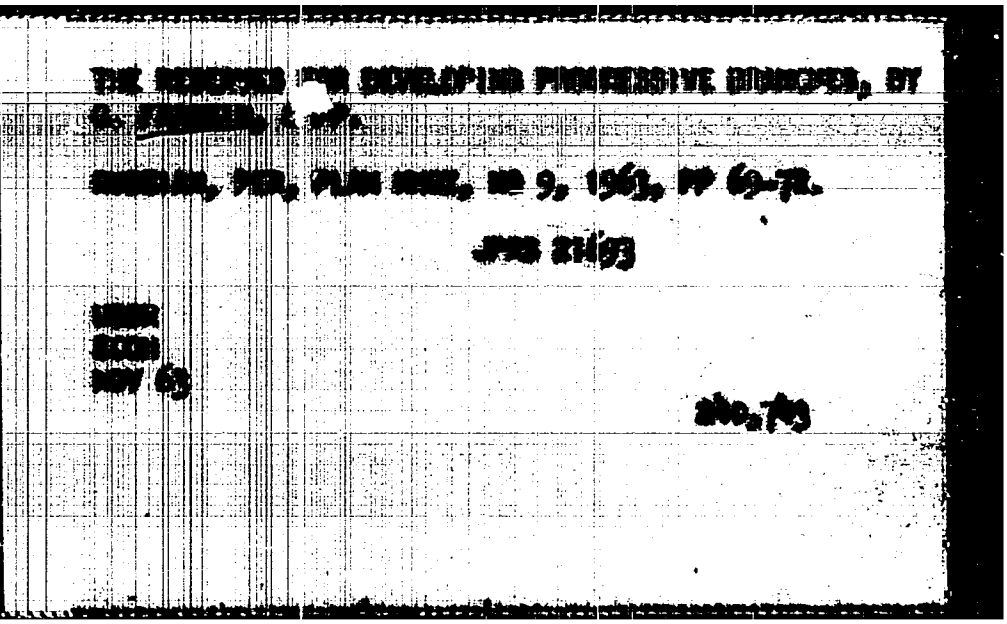

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On the Process Within the Organism of Accumulation and Excretion of the Radioactive Isotopes of the Alkali Earths, Rare Earths, and Heavy Elements, by G. E. Fradkin. UNCLASSIFIED

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AEC Tr 3129

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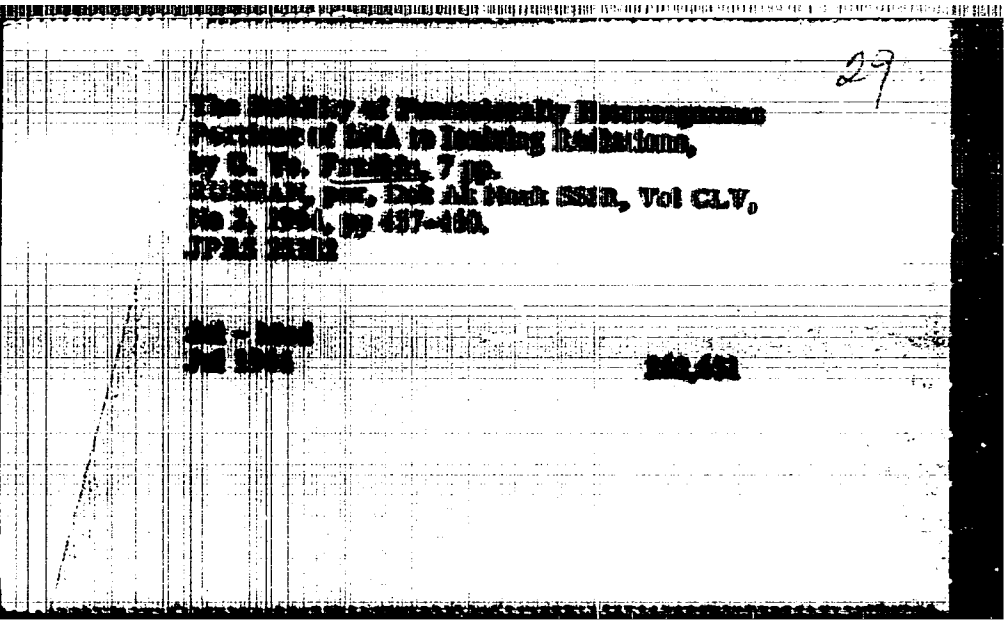

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REPRODUCTION OF PHAGE IN IRRADIATED NON-VIABLE (NONDIVIDING) CELLS. [1961] 4p.
Order from ATS $6.50 ATS-99N51R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1961, v. 137, no. 1, p. 196-198.

DESCRIPTORS: Reproduction, *Bacteriophages, *Cells, (Biology), Viability, Radiation effects

(Biological Sciences--Microbiology, TT, v. 6, no. 2)

61-22629

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II. ATS-99N51R
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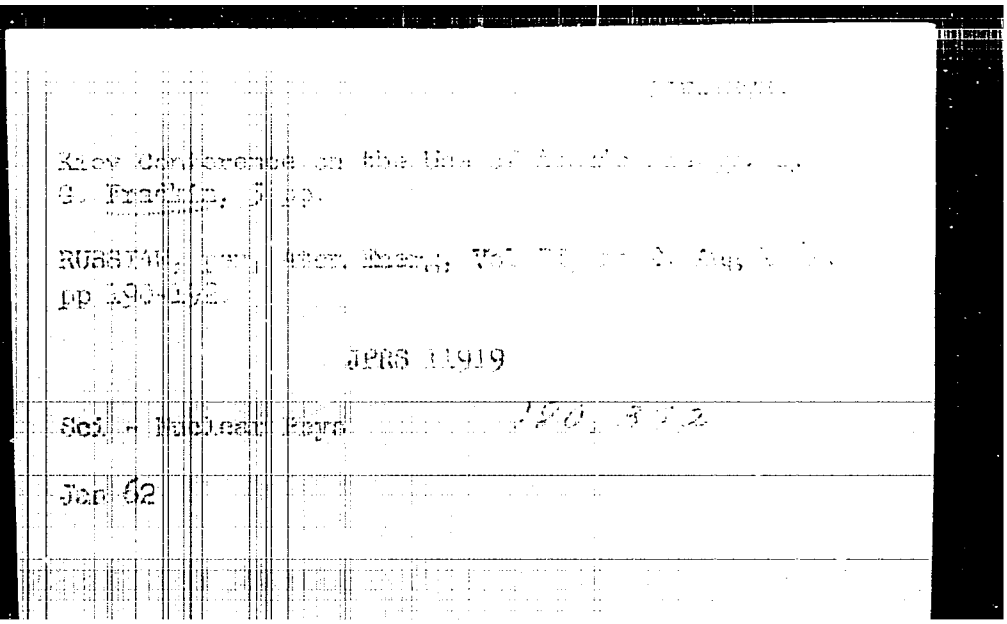

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JPRS 11919

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IIC-0697

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ON THE FORMULATION OF KIRCHHOFF'S LAW AND ITS USE FOR A SUITABLE DEFINITION OF DIFFUSE REFLECTION FACTORS (Über die Formulierung des Kirchhoffschen Gesetzes und Ihre Bedeutung für eine Zweckmässige Definition von Remissionszahlen). [1962] [24]p. (foreign text included) 5 refs.
Order from SLA $2.60 62-16028

Trans. of Optik (West Germany) 1955, v. 12, no. 2, p. 60-70.

DESCRIPTORS: *Optics, Theory, Diffusion, Reflection, Absorption, *Blackbody radiation, Light, Mathematical analysis.

Kirchhoff's law can be stated either for a small solid angle dΩ or for a halfspace (hemisphere). Each case requires a separate exact definition of the constants necessary for the characterization of emission, absorption and diffuse reflection. Kirchhoff's law is di- (over)
(Physics--Optics, TT, v. 8, no. 5)

62-16028

1. Title: Kirchhoff's law
1. Fragstein, C. v.

C28[illegible]

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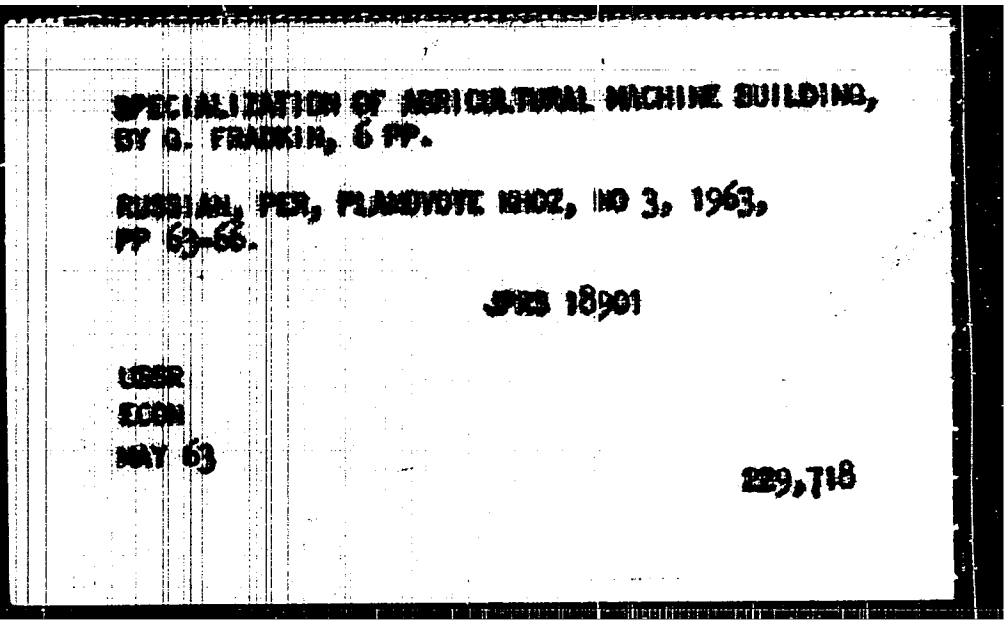

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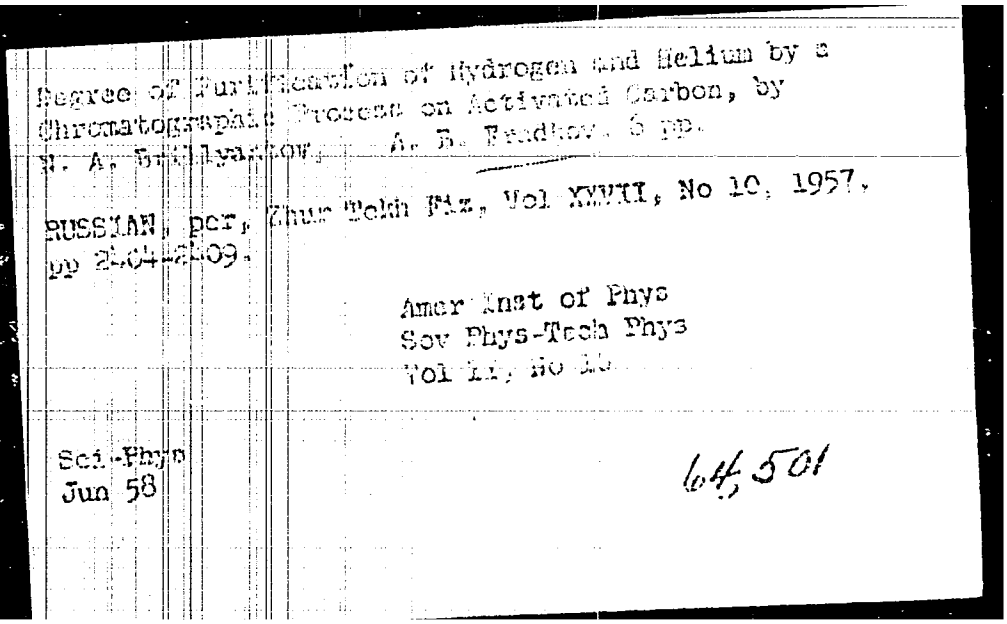

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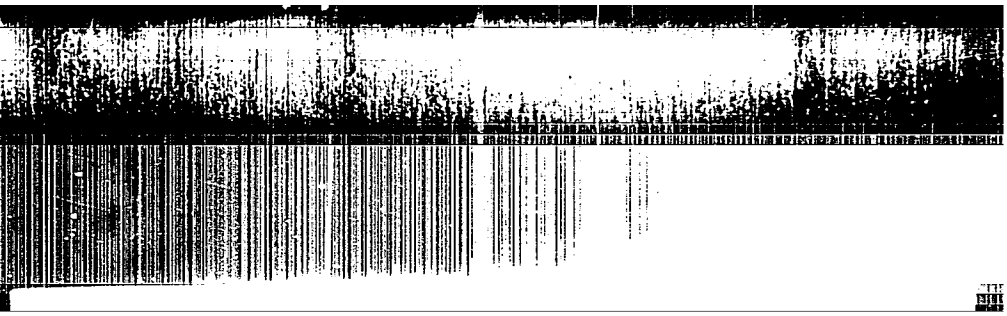

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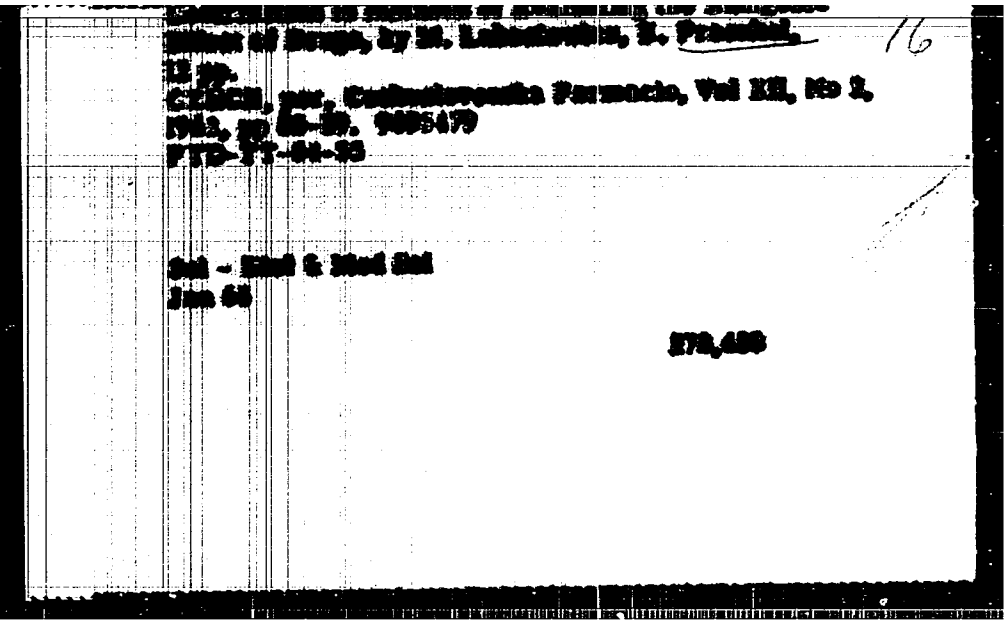

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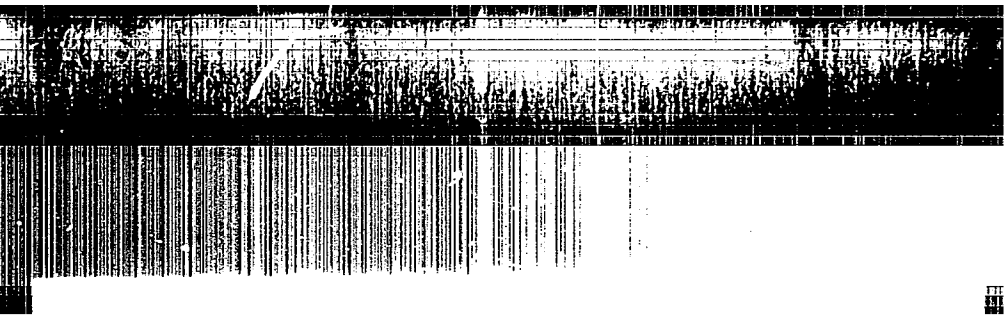

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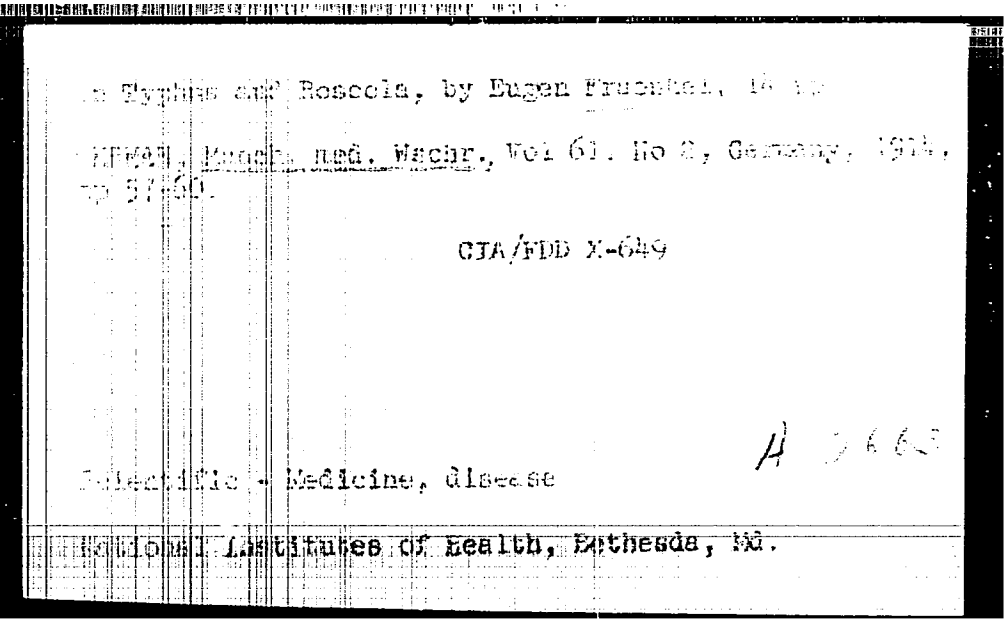

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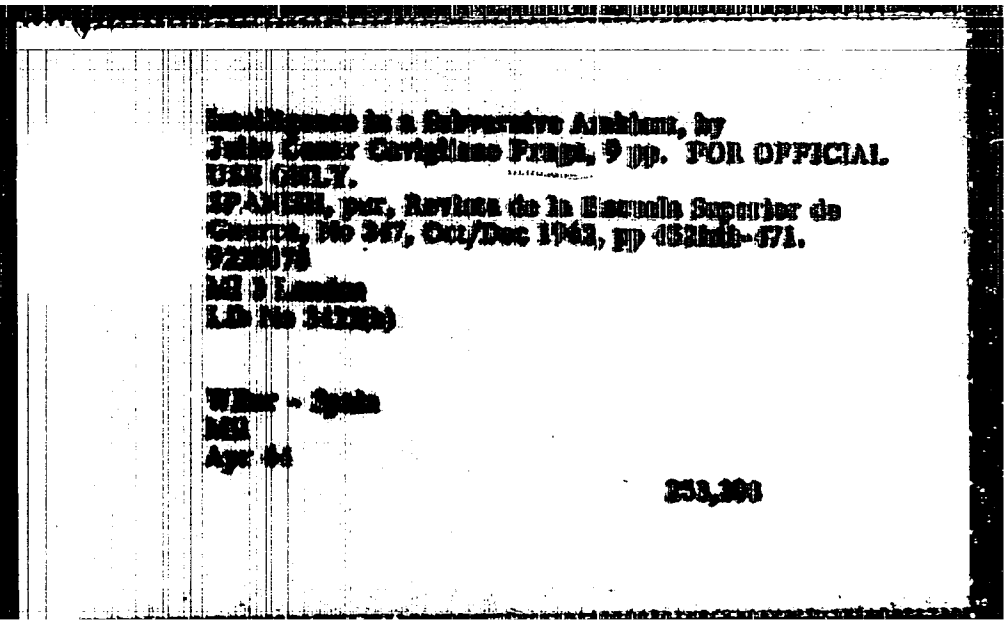

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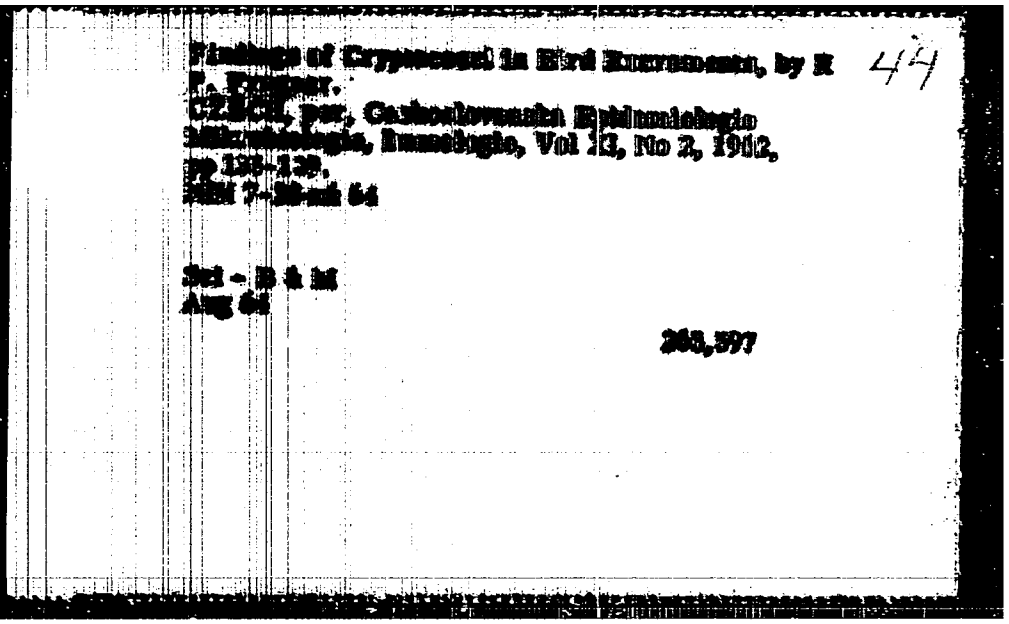

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